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(FILE 'HOME' ENTERED AT 15:01:25 ON 29 JUL 2004)

FILE 'REGISTRY' ENTERED AT 15:01:48 ON 29 JUL 2004

L1 1 S 83-88-5/RN

L2 1 S 53-57-6/RN

FILE 'HCAPLUS' ENTERED AT 15:02:12 ON 29 JUL 2004

FILE 'REGISTRY' ENTERED AT 15:02:20 ON 29 JUL 2004

SET SMARTSELECT ON

L3 SEL L1 1- CHEM : 38 TERMS

SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 15:02:20 ON 29 JUL 2004

L4 25759 S L3

FILE 'REGISTRY' ENTERED AT 15:02:25 ON 29 JUL 2004

SET SMARTSELECT ON

L5 SEL L2 1- CHEM : 19 TERMS

SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 15:02:26 ON 29 JUL 2004

L6 40331 S L5

L7 232 S L6 (L) L4

L8 1 S L7 (L) PREP/RL

L9 214 S L7 AND PD<19990809

L10 16 S L7 (L) (GENET? OR ENGINEER? OR MUTAT? OR MODIF? OR OVEREXPRES

L11 15 S L10 AND PD<19990809

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(FILE 'HOME' ENTERED AT 15:27:32 ON 29 JUL 2004)

FILE 'REGISTRY' ENTERED AT 15:28:09 ON 29 JUL 2004
L1 1 S RIBOFLAVIN/CN

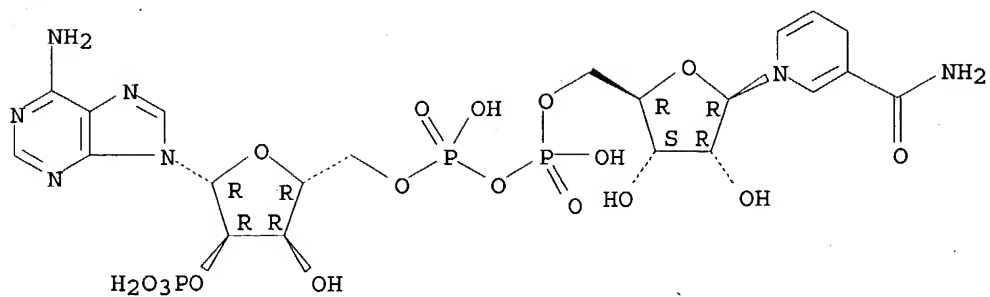
FILE 'HCAPLUS' ENTERED AT 15:28:45 ON 29 JUL 2004

FILE 'REGISTRY' ENTERED AT 15:28:48 ON 29 JUL 2004
SET SMARTSELECT ON
L2 SEL L1 1- CHEM : 38 TERMS
SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 15:28:48 ON 29 JUL 2004
L3 25759 S L2
L4 734 S L3 (L) PREP/RL
L5 34 S L4 (L) (ASHBYA GOSSYP II)
L6 24 S L5 AND PD<19990809

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 53-57-6 REGISTRY
 CN Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate),
 P'→5'-ester with 1,4-dihydro-1-β-D-ribofuranosyl-3-
 pyridinecarboxamide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Adenosine, 2'-(dihydrogen phosphate) 5'-(trihydrogen pyrophosphate),
 5'→5'-ester with 1,4-dihydro-1-β-D-ribofuranosylnicotinamide
 (8CI)
 OTHER NAMES:
 CN β-NADPH
 CN β-Nicotinamide-adenine-dinucleotide-phosphoric acid
 CN β-TPNH
 CN Codehydrase II, reduced
 CN Codehydrogenase II, reduced
 CN Coenzyme II, reduced
 CN Cozymase II, reduced
 CN Dihydrocodehydrogenase II
 CN **NADPH**
 CN NADPH2
 CN Nicotinamide-adenine dinucleotide phosphate, reduced
 CN Reduced codehydrogenase II
 CN Reduced nicotinamide adenine dinucleotide phosphate
 CN Reduced triphosphopyridine nucleotide
 CN TPNH
 CN Triphosphopyridine nucleotide, reduced
 FS STEREOSEARCH
 DR 22046-90-8, 3545-01-5
 MF C21 H30 N7 O17 P3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST,
 CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MRCK*,
 NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
 Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
 (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
 study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
 (Properties); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
 (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
 study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU
 (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10594 REFERENCES IN FILE CA (1907 TO DATE)

208 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

10612 REFERENCES IN FILE CAPLUS (1907 TO DATE)

57 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s riboflavin/cn
L1 1 RIBOFLAVIN/CN

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L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 83-88-5 REGISTRY
CN Riboflavin (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzo[g]pteridine, riboflavin deriv.
CN Riboflavine (7CI)
OTHER NAMES:
CN (-)-Riboflavin
CN 1-Deoxy-1-(3,4-dihydro-7,8-dimethyl-2,4-dioxobenzo[g]pteridin-10(2H)-yl)-D-
ribitol
CN 6,7-Dimethyl-9-D-ribitylisoalloxazine
CN 6,7-Dimethyl-9-ribitylisoalloxazine
CN Beflavin
CN Beflavine
CN Benzo[g]pteridine-2,4(3H,10H)-dione, 7,8-dimethyl-10-(D-ribo-2,3,4,5-
tetrahydroxypentyl)-
CN C.I. 50900
CN C.I. Food Yellow 15
CN D-Ribitol, 1-deoxy-1-(3,4-dihydro-7,8-dimethyl-2,4-dioxobenzo[g]pteridin-
10(2H)-yl)-
CN E 101
CN E 101 (dye)
CN Flavaxin
CN Flavin BB
CN Flaxain
CN Food Yellow 15
CN Hyre
CN Lactobene
CN Lactoflavin
CN Lactoflavine
CN NSC 33298
CN Ribipca
CN Ribocrisina
CN Riboderm
CN Ribosyn
CN Ribotone
CN Ribovel
CN Russupteridine yellow III
CN San Yellow B
CN Vitaflavine
CN Vitamin B2
CN Vitamin G
CN Vitasan B2
FS STEREOSEARCH
DR 130609-39-1, 535950-32-4
MF C17 H20 N4 O6
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU,
DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,
IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA,
PROMT, PS, RTECS*, SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);

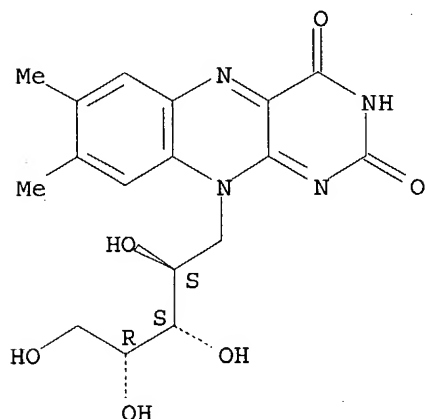
FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17274 REFERENCES IN FILE CA (1907 TO DATE)
 215 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 17293 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)